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IBM CORPORATION, T.J. WATSON RESEARCH CENTER P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598			EXAMINER BAUM, RONALD	
			ART UNIT	PAPER NUMBER
			2136	

DATE MAILED: 10/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/065,802

Applicant(s)

TRAPP ET AL.

Examiner

Ronald Baum

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 14 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-68 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-68 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This action is in reply to applicant's correspondence of 14 June 2005.
2. Claims 1-68 are pending for examination.
3. Claims 1-68 are rejected.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The 35 U.S.C. 112 rejection concerning the term "match" in claims 42,43,50,51,55,56,59,60,65,68 is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-68 are rejected under 35 U.S.C. 102(b) as being anticipated by Ginter et al, U.S. Patent 6,658,568 B1.
5. As per claim 1; "A computer-based method for a multiparty electronic service, the method comprising steps of

negotiating a machine interpretable service specification between all parties, which would cooperate with a particular application running on a host system [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.];

defining said service specification to:

identify cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

identify a requestor and format of a service request, said request is adapted to contain information about an individual [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

conduct conditional processing steps required for said service request, said conditional processing steps is adapted to use stored data about said individual [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions]; and

provide conditional notifications, said notifications is adapted to include additional information about the individual described in the request [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions];

providing a secure computation environment in said host system [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions];

uploading said service specification into said secure computation environment [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

enforcing said service specification with regards to all cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

receiving a service request from said requestor [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions];

providing a secure co-processor in said secure computation environment for processing said service request, where said secure processing includes:

determining the service specification that governs said service request;

validating the actual requestor and the content of the service request against an expected requestor and expected contents as defined in the service specification; and

executing the conditional processing and the notifications as defined in the service specification [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions].”;

6. Further, as per claim 35, this claim is the embodied software claim for the method claim 1 above, and is rejected for the same reasons provided for the claim 1 rejection, as such; “A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform methods steps for managing a matching identification service, the method comprising the steps of:

negotiating a machine interpretable service specification between all parties, which would cooperate with a particular application running on a host system;

defining said service specification to:

identify cooperating parties;

identify a requestor and format of a service request, said request is adapted to

contain information about an individual;

conduct conditional processing steps required for said service request,

said conditional processing steps is adapted to use

stored data about said individual; and

provide conditional notifications,

said notifications is adapted to include

additional information about the individual described in the

request;

providing a secure computation environment in said host system;

uploading said service specification into said secure computation environment;

enforcing said service specification with regards to all cooperating parties;

receiving a service request from said requestor;

providing a secure co-processor in said secure computation environment for processing
said service request,

where said secure processing includes:

determining the service specification that governs said service request;

validating

the actual requestor and

the content of the service request

against
an expected requestor and
expected contents as defined in
the service specification; and
executing
the conditional processing and
the notifications as defined in the service specification.”.

7. Further, as per claim 34, this claim is the article of manufacture including the embodied software claim for the method claim 1 above, and is rejected for the same reasons provided for the claim 1 rejection, as such; “An article of manufacture for use in a multiparty electronic service, comprising a machine readable medium tangibly embodying a program of instructions executable by a machine for implementing a method, the method comprising steps of:

negotiating a machine interpretable service specification between all parties, which would cooperate with a particular application running on a host system;

defining said service specification to:

identify cooperating parties;

identify a requestor and format of a service request,

said request is adapted to contain information about an individual;

conduct conditional processing steps required for said service request,

said conditional processing steps is adapted to use stored data about said individual; and

provide conditional notifications,

said notifications is adapted to include additional information about the

individual described in the request;

providing a secure computation environment in said host system;

uploading said service specification into said secure computation environment;

enforcing said service specification with regards to all cooperating parties;

receiving a service request from said requestor;

providing a secure co-processor in said secure computation environment for processing
said service request,

where said secure processing includes:

determining the service specification that governs said service request;

validating

the actual requestor and

the content of the service request

against

an expected requestor and

expected contents as defined in the service specification; and

executing

the conditional processing and

the notifications as defined in the service specification.”.

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8. Further, as per claim 17; "Apparatus for a multiparty electronic service, the apparatus comprising:

at least one host computer adapted to have

at least one secure co-processor operating in

a secure computation environment [figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions],

said at least one host computer operative to:

negotiate a machine interpretable service specification between all parties, which would cooperate with a particular application running on said host computer [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions];

upload said service specification into said secure computation environment [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions];

enforce said service specification with regards to all cooperating parties [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions];

receive a service request from a requestor [col. 7,lines 20-31,col. 9,lines 34-58, figures 2a-2c,3a-3c,17a-17b,18,34,35,40,41,47,52,55,56, 58c,65, and associated descriptions];

execute secure processing of said service request [figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions]; and

provide notifications as defined in the service specification [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.].”.

9. Claim 2 *additionally recites* the limitation that; “The method of claim 1 further comprising the step of

allowing at least one party of said cooperating parties to

cancel said service specification

wherein all future service requests that rely on said cancelled service specification will be rejected.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-14, 40, 47, 51F-51H, 52, 55, 58a-58d, 62, 65 and associated descriptions.).

10. Claim 3 *additionally recites* the limitation that; “The method of claim 2 wherein said steps of negotiating a machine interpretable service specification, uploading, enforcing, receiving a service request, and canceling said service specification comprises the step of

conducting said previous steps multiple times.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-14, 40, 47, 51F-51H, 52, 55, 58a-58d, 62, 65 and associated descriptions.).

11. Further, as per claim 22 *additionally reciting* the limitation that; “The apparatus of claim 17 wherein said at least one host computer operative to negotiate said machine interpretable

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service specification, upload said service specification, enforce said service specification, and receive a service request, is further operative to

conduct said negotiating, uploading, enforcing and receiving functions multiple times.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-14, 40, 47, 51F-51H, 52, 55, 58a-58d, 62, 65 and associated descriptions.).

12. Claim 4 *additionally recites* the limitation that; “The method of claim 1 further comprising the steps of:

negotiating multiple machine interpretable service specifications [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

defining said multiple service specifications [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

uploading said multiple service specifications into said secure computation environment [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions]; and

enforcing said multiple service specifications with regards to all cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions].”.

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13. Further, as per claim 28 ***additionally reciting*** the limitation that; “The apparatus of claim 17 wherein said at least one host computer operative to negotiate a machine interpretable service specification between all parties is further operative to:

negotiate multiple machine interpretable service specifications [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

define said multiple service specifications [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

upload said multiple service specifications into said secure computation environment [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions]; and

enforce said multiple service specifications with regards to all cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions].”.

14. Claim 5 ***additionally recites*** the limitation that; “The method of claim 4 wherein said secure processing steps further comprises the step of

having at least one of said secure processing steps being executed unconditionally.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.).

15. Claim 6 ***additionally recites*** the limitation that; “The method of claim 1 wherein said secure processing steps further comprises the step of

having at least one of said secure processing steps use data
provided in said service request and
found in said host system

to derive further information about said individual described in said service request.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

16. Further, as per claim 23 *additionally reciting* the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to

use data
provided in said service request and
found in said host computer

to derive further information about an individual described in said service request.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

17. Claim 7 *additionally recites* the limitation that; “The method of claim 6 wherein said at least one of said secure processing steps further comprises the step of

computing a correlation between
biometric data provided in said service request and

biometric data looked up in said host system.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65-66, and associated descriptions.).

18. Further, as per claim 24 *additionally reciting* the limitation that; “The apparatus of claim 23 wherein said at least one host computer is further operative to

compute a correlation between

biometric data provided in said service request and

biometric data looked up in said host computer.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65-66, and associated descriptions.).

19. Further, as per claim 25 *additionally reciting* the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to

compute a correlation between

biometric data provided in said service request and

biometric data looked up in said host computer.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65-66, and associated descriptions.).

20. Claim 8 ***additionally recites*** the limitation that; “The method of claim 1 wherein said step of providing conditional notifications further comprises the step of
providing an empty message.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

21. Further, as per claim 26 ***additionally reciting*** the limitation that; “The apparatus of claim 17 wherein said at least one host computer operative to
provide notifications is further operative to provide an empty message”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

22. Claim 9 ***additionally recites*** the limitation that; “The method of claim 1 wherein said step of negotiating a machine interpretable service specification between all parties further comprises the step of
providing a contract for governing the negotiated service specification.”.

The teachings of Ginter et al are directed towards such limitations (col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions.).

23. Further, as per claim 21 ***additionally reciting*** the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to

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provide a contract for governing the negotiated service specification.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

24. Claim 10 *additionally recites* the limitation that; “The method of claim 1 wherein said secure processing steps further comprises the step of

notifying said requestor that said service request was processed.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.).

25. Further, as per claim 29 *additionally reciting* the limitation that; “The apparatus of claim 17 wherein said at least one host computer operative to

provide notifications is further operative to notify said requestor that said service request was processed.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.).

26. Claim 11 *additionally recites* the limitation that; “The method of claim 1 wherein said step of enforcing said service specification further comprises the step of

uploading at least one database from at least one party of said cooperating parties,

information contained therein from said at least one database is stored in said host system.”.

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The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

27. Further, as per claim 27 ***additionally reciting*** the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to

upload at least one database from at least one party of said cooperating parties,

information contained therein from said at least one database is adapted to be

stored in said host computer.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

28. Claim 12 ***additionally recites*** the limitation that; “The method of claim 4 wherein said step of negotiating multiple machine interpretable service specifications between any cooperating parties further comprises the step of

providing a contract for governing each negotiated service specification.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

29. Claim 13 ***additionally recites*** the limitation that; “The method of claim 1 wherein said step of providing conditional notifications further comprises the step of

providing a notification that is adapted to contain information about said individual.”.

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The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

30. Further, as per claim 30 *additionally reciting* the limitation that; “The apparatus of claim 27 wherein said at least one host computer operative to provide notifications is further operative to

provide conditional notifications that is adapted to contain information about an individual.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

31. Claim 14 *additionally recites* the limitation that; “The method of claim 13, wherein said step of providing a notification that is adapted to contain information about said individual further comprises the step of

providing said notification to at least one party of said cooperating parties,

said at least one party of said cooperating parties is a party other than said requestor.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

32. Further, as per claim 31 ***additionally reciting*** the limitation that; “The apparatus of claim 18 wherein said at least one host computer is further operative to

provide said conditional notifications to another party of said cooperating parties,

said another party of said cooperating parties is a party other than said requestor.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

33. Claim 15 ***additionally recites*** the limitation that; “The method of claim 14, wherein said step of providing a notification to at least one party of said cooperating parties that is adapted to contain information about said individual further comprises the step of

providing notification to said at least one party of said cooperating parties that is a party other than a provider of said stored data.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

34. Further, as per claim 32 ***additionally reciting*** the limitation that; “The method of claim 31, wherein said at least one host computer operative to provide said conditional notifications to said another party of said cooperating parties is further operative to

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provide said conditional notifications to a party other than a provider of said stored data.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

35. Claim 16 *additionally recites* the limitation that; “The method of claim 1 wherein said step of providing conditional notifications further comprises the step of

providing a notification to at least one party of said cooperating parties that is adapted to contain no information about said individual.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions.).

36. Claim 18 *additionally recites* the limitation that; “The apparatus of claim 17, wherein said at least one host computer is further operative to define said service specification to:

identify said cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

identify said requestor and the format of said service request,

said request is adapted to contain information about an individual [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

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conduct conditional processing steps required for said service request,

said conditional processing steps is adapted to use stored data about said individual [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions]; and provide conditional notifications,

said conditional notifications is adapted to include additional information about the individual described in the request [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions].”.

37. Claim 19 *additionally recites* the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to execute said secure processing to:

determine the service specification that governs said service request;

validate said requestor and the content of the service request against an expected requestor and expected contents as defined in the service specification; and

execute conditional processing as defined in the service specification.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions).

38. Claim 20 *additionally recites* the limitation that; “The apparatus of claim 17 wherein said at least one host computer is further operative to

provide said notifications as conditional notifications that is adapted to include additional information about an individual described in the request.”.

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The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions).

39. Further, as per claim 37; “An identification method for matching individuals, the method comprising the steps of:

providing at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions];

operating said at least one host computer to negotiate a machine interpretable contract between all parties, which would cooperate with a particular application running on said host computer [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

uploading said contract into said secure computation environment [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

enforcing said contract with regards to all cooperating parties [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

receiving a service request from a requestor [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions];

executing secure processing of said service request [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions]; and

providing notifications as defined in the contract [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions].”.

40. Further, as per claim 33, this claim is the apparatus/system claim for the method claim 37 above, and is rejected for the same reasons provided for the claim 37 rejection, as such; “An identification apparatus for matching individuals, the apparatus comprising:

at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment,

said at least one host computer operative to:

negotiate a machine interpretable contract between all parties,

which would cooperate with

a particular application running on said host computer;

upload said contract into said secure computation environment;

enforce said contract with regards to all cooperating parties;

receive a service request from a requestor, execute secure processing of said service request; and

provide notifications as defined in the contract.”.

41. Further, as per claim 40, this claim is the article of manufacture including the embodied software claim for the method claim 37 above, and is rejected for the same reasons provided for the claim 37 rejection, as such; “An article of manufacture for use in matching individuals,

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comprising a machine readable medium tangibly embodying a program of instructions executable by a machine for implementing a method, the method comprising steps of:

providing at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment;

operating said at least one host computer to negotiate a machine interpretable contract between all parties, which would cooperate with a particular application running on said host computer;

uploading said contract into said secure computation environment;

enforcing said contract with regards to all cooperating parties;

receiving a service request from a requestor;

executing secure processing of said service request; and

providing notifications as defined in the contract.”.

42. Further, as per claim 41, this claim is the embodied software claim for the method claim 37 above, and is rejected for the same reasons provided for the claim 37 rejection, as such; “A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform methods steps for managing a matching identification service, the method comprising the steps of:

providing at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment;

operating said at least one host computer to negotiate a machine interpretable contract between all parties, which would cooperate with a particular application running on said host computer;

uploading said contract into said secure computation environment;

enforcing said contract with regards to all cooperating parties;

receiving a service request from a requestor;

executing secure processing of said service request; and

providing notifications as defined in the contract.”.

43. Further, as per claim 42; “A computer-based method for a multiparty electronic service, the method comprising steps of:

implementing on a computer system at least one contract for governing a service between a service provider, a client and at least one other party [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions];

receiving at said service provider a first request from a client [col. 7,lines 20-31,col. 9,lines 34-58, figures 2a-2c,3a-3c,17a-17b,18,34,35,40,41,47,52,55,56, 58c,65, and associated descriptions];

sending from said service provider a data request to one of at least one other party [col. 7,lines 20-31,col. 9,lines 34-58, figures 2a-2c,3a-3c,17a-17b,18,34,35,40,41,47,52,55,56, 58c,65, and associated descriptions];

receiving, at said service provider from said one of at least one other party, a data response in a secure computation environment [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions];

determining, in accordance with said contract, whether a match exists between said first request and said data response [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

if a match results from said determining step, providing a notification of said match to said at least one other party [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.].”.

44. Claim 43 *additionally recites* the limitation that; “The method of claim 42 further comprises the step of

providing said notification even if there is no match as determined in said determining step.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.).

45. Claim 44 *additionally recites* the limitation that; “The method of claim 43, wherein said step of providing said notification comprises the step of

providing a dummy message to said at least one other party.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions.).

46. Claim 45 *additionally recites* the limitation that; “The method of claim 42 further comprises the step of

notifying said client that said first request was processed.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

47. Claim 46 *additionally recites* the limitation that; “The method of claim 42 wherein the implementing the at least one contract step comprises the step of

assigning a contract ID for any contract that governs a service between the service provider, the client and the at least one other party.”.

The teachings of Ginter et al are directed towards such limitations (col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions.).

48. Claim 47 *additionally recites* the limitation that; “The method of claim 42 further comprises the step of

executing the previous steps in a contract engine within the secure computation environment.”.

The teachings of Ginter et al are directed towards such limitations (col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions.).

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49. Claim 48 *additionally recites* the limitation that; “The method of claim 47 further comprises the step of

providing a plurality of contract engines coupled to a communication network.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

50. Claim 49 *additionally recites* the limitation that; “The method of claim 42 wherein the determining step comprises the step of

performing the determination in a crypto-coprocessor.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

51. As per claim 50; “A computer-based method for a multiparty electronic service, the method comprising steps of:

implementing on a computer system at least one contract for governing a service between

a service provider,

a client and

at least one other party [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions];

determining, in accordance with said contract, whether a match exists between

a first request from said client and

a data response from one of at least one other party [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2c, 3a-3c, 17a-17b, 18, 34, 35, 40, 41, 47, 52, 55, 56, 58c, 65, and associated descriptions];

if a match results from said determining step, providing a notification of said match to said at least one other party [figures 1A-3C, 6, 7, 10-14, 17A-17F, 19, 32, 34, 41, 48, 53, 56, 58C, 58D and associated descriptions].”.

52. Further, as per claim 59, this claim is the apparatus/system claim for the method claim 50 above, and is rejected for the same reasons provided for the claim 50 rejection, as such;

“Apparatus for a multiparty electronic service, the apparatus comprising:

at least one host computer operative to:

maintain and enforce at least one contract for governing a service between a

service provider,

a client and

at least one other party; and

to determine, in accordance with said at least one contract, whether a match exists

between

a first request from said client and

a data response from one of at least one other party;

said at least one host computer is further operative to provide a notification to said

at least one other party if a match results from said determination.”

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53. Claim 51 *additionally recites* the limitation that; “The method of claim 50 further comprises the step of

providing said notification even if there is no match as determined in said determining step.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

54. Further, as per claim 60, this claim is the apparatus/system claim for the method claim 51 above, and is rejected for the same reasons provided for the claim 51 rejection, as such; “The apparatus of claim 59, wherein said at least one host computer is further operative to

provide said notification to said at least one other party if no match results from said determination.”.

55. Claim 52 *additionally recites* the limitation that; “The method of claim 51, wherein said step of providing said notification comprises the step of

providing a dummy message to said at least one other party.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

56. Further, as per claim 61, this claim is the apparatus/system claim for the method claim 52 above, and is rejected for the same reasons provided for the claim 52 rejection, as such; “The apparatus of claim 60, wherein said at least one host computer is further operative to

provide a dummy message to said at least one other party.”.

57. Claim 53 *additionally recites* the limitation that; “The method of claim 50 further comprises the step of

notifying said client that said first request was processed.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

58. Further, as per claim 62, this claim is the apparatus/system claim for the method claim 53 above, and is rejected for the same reasons provided for the claim 53 rejection, as such; “The apparatus of claim 59, wherein said at least one host computer is further operative to

provide a notification to said client that said first request was processed.”.

59. Claim 54 *additionally recites* the limitation that; “The method of claim 50 wherein the implementing the at least one contract step comprises the step of

assigning a contract ID for any contract that governs a service between

the service provider,

the client and

the at least one other party.”.

The teachings of Ginter et al are directed towards such limitations (col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions.).

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60. Further, as per claim 64, this claim is the apparatus/system claim for the method claim 54 above, and is rejected for the same reasons provided for the claim 54 rejection, as such; “The apparatus of claim 59, wherein said at least one host computer is further operative to

provide a contract ID for any contract that governs a service between

the service provider,

the client and

the at least one other party.”.

61. As per claim 55; “A computer-based method for managing a matching identification service, the method comprising the steps of:

implementing on a computer system at least one contract having a contract ID for governing said matching identification service between

a service provider,

a client and

at least one other party determining, in accordance with said contract ID [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions], whether a match exists between

a first request from said client and

a data response from one of at least one other party [col. 7, lines 20-31, col. 9, lines 34-58, figures 2a-2e, 4a-5, 7a, 11, 13, 17-20, 23-28, 33-40, 47, 51g, 52, 61, 63, 67 and associated descriptions];

if a match results from said determining step,

providing a notification of said match to said at least one other party [figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions].”.

62. Further, as per claim 65, this claim is the apparatus/system claim for the method claim 55 above, and is rejected for the same reasons provided for the claim 55 rejection, as such;

“Apparatus for a matching identification service, the apparatus comprising:

at least one host computer operative to:

maintain and enforce at least one contract having a contract ID for governing a service between

a service provider,

a client and

at least one other party; and

to determine, in accordance with said at least one contract, whether a match exists between

a first request from said client and

a data response from one of at least one other party;

said at least one host computer is further operative to

provide a notification to said at least one other party if a match results from said determination.”.

63. Claim 63 *additionally recites* the limitation that; “The apparatus of claim 59, wherein said at least one host computer comprises:

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a secure computation environment for processing sensitive data [figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions];

a network handler for

sending and receiving messages to and from

said secure computation environment and

a network [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-

51H,52,55,58A-58B,65 and associated descriptions.]; and

a storage handler to

process database requests that come from inside said secure computation

environment and

retrieves information from a secured database containing

said contracts and private information data [col. 7,lines 20-31,col. 9,lines

34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated

descriptions.].”.

64. Claim 66 *additionally recites* the limitation that; “The apparatus of claim 65, wherein said at least one host computer comprises:

a secure computation environment for processing sensitive data [figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions];

a network handler for

sending and receiving messages to and from

said secure computation environment and

a network [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.]; and
a storage handler to
process database requests that come from inside said secure computation environment and
retrieves information from a secured database containing
said contracts and private information data [col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.].”.

65. Claim 67 ***additionally recites*** the limitation that; “The apparatus of claim 66, wherein said secure computation environment comprises a contract engine operative to:

handle said first request,
conduct a matching task, and
provide a respond serving as said notification.”.

The teachings of Ginter et al are directed towards such limitations (col. 7, lines 20-31, col. 9, lines 34-58, figures 10-13, 40, 47, 51F-51H, 52, 55, 58A-58B, 65 and associated descriptions.).

66. Claim 68 ***additionally recites*** the limitation that; “The apparatus of claim 65, wherein said at least one host computer is further operative to

provide said notification to said at least one other party if no match results from said determination”.

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The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

67. Claim 56 ***additionally recites*** the limitation that; “The method of claim 55 further comprises the step of

providing said notification even if there is no match as determined in said determining step.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

68. Claim 57 ***additionally recites*** the limitation that; “The method of claim 56, wherein said step of providing said notification comprises the step of

providing a dummy message to said at least one other party.”.

The teachings of Ginter et al are directed towards such limitations (figures 1A-3C,6,7,10-14,17A-17F,19,32,34,41,48,53,56,58C,58D and associated descriptions.).

69. Claim 58 ***additionally recites*** the limitation that; “The method of claim 56 further comprises the step of

notifying said client that said first request was processed.”.

The teachings of Ginter et al are directed towards such limitations (col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated descriptions.).

70. As per claim 36; “A multiparty electronic service method comprising the steps of:
providing at least one host computer adapted to have at least one secure co-processor
operating in a secure computation environment [figures 1A-3C,6,7,10-14,17A-
17F,19,32,34,41,48,53,56,58C,58D and associated descriptions];

operating said at least one host computer to negotiate a machine interpretable service
specification between all parties, which would cooperate with a particular application running on
said host computer [col. 7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-
51H,52,55,58A-58B,65 and associated descriptions];

uploading said service specification into said secure computation environment [col.
7,lines 20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated
descriptions];

enforcing said service specification with regards to all cooperating parties [col. 7,lines
20-31,col. 9,lines 34-58, figures 10-13,40,47,51F-51H,52,55,58A-58B,65 and associated
descriptions];

receiving a service request from a requestor [col. 7,lines 20-31,col. 9,lines 34-58, figures
2a-2c,3a-3c,17a-17b,18,34,35,40,41,47,52,55,56, 58c,65, and associated descriptions];

executing secure processing of said service request [figures 1A-3C,6,7,10-14,17A-
17F,19,32,34,41,48,53,56,58C,58D and associated descriptions]; and

providing notifications as defined in the service specification [col. 7,lines 20-31,col.
9,lines 34-58, figures 2a-2c,3a-3c,17a-17b,18,34,35,40,41,47,52,55,56, 58c,65, and associated
descriptions].”.

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71. Further, as per claim 38, this claim is the article of manufacture including the embodied software claim for the method claim 36 above, and is rejected for the same reasons provided for the claim 36 rejection, as such; “An article of manufacture for use in a multiparty electronic service, comprising a machine readable medium tangibly embodying a program of instructions executable by a machine for implementing a method, the method comprising steps of:

providing at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment;

operating said at least one host computer to negotiate a machine interpretable service specification between all parties, which would cooperate with a particular application running on said host computer;

uploading said service specification into said secure computation environment;

enforcing said service specification with regards to all cooperating parties;

receiving a service request from a requestor;

executing secure processing of said service request; and

providing notifications as defined in the service specification.”.

72. Further, as per claim 39, this claim is the embodied software claim for the method claim 36 above, and is rejected for the same reasons provided for the claim 36 rejection, as such; “A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform methods steps for managing a matching identification service, the method comprising the steps of:

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providing at least one host computer adapted to have at least one secure co-processor operating in a secure computation environment;

operating said at least one host computer to negotiate a machine interpretable service specification between all parties, which would cooperate with a particular application running on said host computer;

uploading said service specification into said secure computation environment;

enforcing said service specification with regards to all cooperating parties;

receiving a service request from a requestor;

executing secure processing of said service request; and

providing notifications as defined in the service specification.”.

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Conclusion

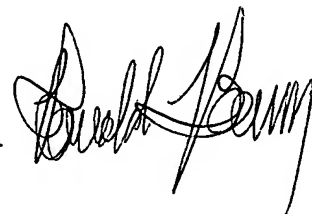
73. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh, can be reached at (571) 272-3795. The Fax number for the organization where this application is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

Patent Examiner



Primary Examiner

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